

**From:** [Perez, Myra](#)  
**To:** [Coltrain, Katrina](#)  
**Cc:** [Warren, Christy](#); [Flores, Raymond](#); [Humphrey, Marvelyn](#)  
**Subject:** Wilcox - NORM/TENORM parameters - please reply  
**Date:** Wednesday, March 30, 2016 2:47:39 PM

---

Hello Katrina – The CLP nor the Houston lab can analyze for above mentioned parameters.

**Question – you submitted projections for Wilcox for the months of June and August. Does it mean that it will be sampled either in June? Or August? Or sampling will take place during both months?**

If you need additional information, please contact us at your earliest convenience.  
Take care.

Myra

---

**From:** Warren, Christy  
**Sent:** Wednesday, March 30, 2016 2:12 PM  
**To:** Flores, Raymond; Perez, Myra  
**Cc:** Humphrey, Marvelyn  
**Subject:** RE: Wilcox SAP COPCs - please reply  
Houston doesn't either.  
Christy Warren  
US EPA Region 6 Lab  
Sample Control Center  
10625 Fallstone Road  
Houston, Texas 77099  
Office: 281-983-2137  
Cell: 713-805-7157



This e-mail may be privileged and/or confidential. It is intended for the named recipient(s) only. Any distribution, use or copying of this e-mail or the information it contains by other than an intended recipient is unauthorized. If you received this e-mail in error, please advise me (by return e-mail or otherwise) immediately and do not duplicate it or disclose its contents to anyone.

---

**From:** Flores, Raymond  
**Sent:** Wednesday, March 30, 2016 2:04 PM  
**To:** Perez, Myra  
**Cc:** Humphrey, Marvelyn; Warren, Christy  
**Subject:** RE: Wilcox SAP COPCs - please reply  
Myra,  
CLP cannot analyze for the NORM/TENORM parameters.

---

**From:** Perez, Myra  
**Sent:** Tuesday, March 29, 2016 4:57 PM  
**To:** Flores, Raymond  
**Cc:** Humphrey, Marvelyn; Warren, Christy  
**Subject:** FW: Wilcox SAP COPCs - please reply  
Ray – can CLP do the following;

Can Houston or CLP do NORM/TENORM?

Analysis for NORM/TENORM is anticipated to be performed on soil, surface water, sediment, ground water, and waste. NORM/TENORM analyses include the following:  
Soil: Gamma spectroscopy NORM, gross alpha/beta, total uranium, and total thorium.  
Water: gamma spectroscopy (radium-226/228), gross alpha/beta, total uranium, and total thorium.

---

**From:** Coltrain, Katrina

**Sent:** Tuesday, March 29, 2016 4:46 PM

**To:** Perez, Myra; Warren, Christy

**Cc:** Teri Mcmillan ([tmcmillan@eaest.com](mailto:tmcmillan@eaest.com))

**Subject:** FW: Wilcox SAP COPCs

Hey Myra/Christy, I just want to confirm that we have the correct list of parameters that can be sent to Houston/CLP.

Also, based on a previous conversation, it was mentioned that a request for prelim data or data faster than 21-day turn around cost more and requires a sign off by upper management that supports the project's needs for data with quick turn-around times. The question I have, are 'unvalidated' data in this category? I am wondering if preliminary data requests require a bit more review than unvalidated and if electronic unvalidated data tables are considered preliminary data?

The current COPCs at the site are as follows: soil

VOCs

EDB - Method 8011 – need low detection limit

PAHs (SIM)

SVOCs

TAL metals (Al, Ca, Fe, Mg)

Mercury, and

Cyanide.

In addition, a select number of soil samples in the process areas (5 percent) of the shallow surface soil samples (0.0-0.6 ft bgs) will also be analyzed for:

PCB

Pesticides

Dioxins/furans.

Surface water:

Total and Dissolved metals

pH

Hardness

Total dissolved solids (TDS)

Total suspended solids (TSS)

Alkalinity

Organic carbon

Acid volatile sulfide (AVS)

Sediment samples:

Grain size (20 percent of samples)

Total organic carbon

H

hexavalent chromium: cannot be done by CLP or Houston

Can Houston or CLP do NORM/TENORM?

Analysis for NORM/TENORM is anticipated to be performed on soil, surface water, sediment, ground water, and waste. NORM/TENORM analyses include the following:

oil: Gamma spectroscopy NORM, gross alpha/beta, total uranium, and total thorium.

Water: gamma spectroscopy (radium-226/228), gross alpha/beta, total uranium, and total thorium.

Katrina Higgins-Coltrain  
Remedial Project Manager  
US EPA Region 6  
LA/OK/NM Section (6SF-RL)  
1445 Ross Avenue  
Dallas, Texas 75202  
214-665-8143